

## Datasheet: MCA4660A647T

<b>Description:</b>	HAMSTER ANTI MOUSE CD137:Alexa Fluor® 647
<b>Specificity:</b>	CD137
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	17B5
<b>Isotype:</b>	IgG
<b>Quantity:</b>	25 TESTS/0.25ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/50

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Alexa Fluor®647	650	665					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )						
<b>Stabilisers</b>	1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml						

**External Database  
Links**

**UniProt:**

[P20334](#)   [Related reagents](#)

**Entrez Gene:**

[21942](#)   [Tnfrsf9](#)   [Related reagents](#)

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**Synonyms**      Cd137, Ila, Ly63

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**RRID**            AB\_2205695

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**Specificity**      **Hamster anti Mouse CD137 antibody, clone 17B5** recognizes mouse CD137, also known as 4-1BB ligand receptor, a member of the tumour necrosis factor superfamily. CD137 is a potent costimulatory receptor for the growth and functional maturation of activated T-cells in the presence of T-cell receptor signal. It is found on activated T-cells, NK cells, monocytes and dendritic cells. Signalling through CD137 triggers T-cell expansion, cytokine production and prevention of activation-induced death of effector T-cells. CD137-mediated activation is distinct from and independent of CD28. Antibody cross-linking of CD137 on NK cells stimulates the secretion of IFN-gamma, cellular proliferation, CD25 expression and responsiveness to IL-2 and is associated with tumour activity, but not cytotoxicity.

Hamster anti Mouse CD137 antibody, clone 17B5 may be used to block CD137-mediated T-cell proliferation.

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**Flow Cytometry**      Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/B](#)).

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**References**            1. Zheng, G. *et al.* (2004) The 4-1BB costimulation augments the proliferation of CD4+CD25+ regulatory T cells. [J Immunol. 173 \(4\): 2428-34.](#)

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**Storage**              Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**            12 months from date of despatch

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA2356A647\)](#)

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

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